

Analysis of 3-D Metallization Structures by a Full-Wave Spectral Domain Technique

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A full-wave method for the investigation of microstrip- and coplanar-structures including 3-D metallization structures is presented. The spectral domain analysis method is used to calculate the S-parameters of unshielded microwave components containing bond-wires and air-bridges. The general formulation and the implementation procedure of the method are described. The application of the theory is given by a comparison of measured and calculated results for a spiral inductor, including an air-bridge.

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